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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/960,333	09/24/2001	Yoshihiro Minami	214183US2	4643	
. 22850 7	590 01/30/2003				
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER 1		
			MANDALA, VICTOR A		
			ART UNIT	PAPER NUMBER	
			. 2826		
				DATE MAILED: 01/30/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner			Application No.	Applicant(s)				
Victor A Mandala Jr. 2826	Office Action Summary		09/960,333	MINAMI, YOSHIHI	RO 11			
- The MAILING DATE of this communication appears on th cover sheet with the correspondence address - Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Expression of time may be available under the provisions of 3 of 2 ft 1.13(g). In or event, however, may a reply be simely filled after SIX (b) (MONTHS from the mainting and a trip (D)) (asy, a reply within the station of the provision of the provisio			Examiner	Art Unit	- 			
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DETAILED ACTION

Response to Applicant's Argument's

- 1. The Applicant traverses the first paragraph 35 U.S.C. 112 rejection and has identified the material used for the protective film in the disclosure. The Examiner has considered the Applicant's arguments and retracks the 35 U.S.C. 112 first paragraph rejection. Claims 5-14 will be further examined.
- 2. The Applicant has amended the independent claim 1 and dependent claim 2 to overcome the 35 U.S.C. 102(b) rejection. The examiner has considered the Applicant's amendments, but finds them to still keep the same scope of the invention that the 35 U.S.C. 102(b) rejection is based upon. The examiner finds the amendments to be unable to overcome the rejection, which the rejection will stand as stated below. The examiner finds the amended term [to avoid being positioned in] to still have the same original scope as the unamended claims; the protruding portion is formed not directly below the conducting layer, which the 35 U.S.C 102 (b) rejection is based upon.
- 3. The Applicant argues that the 35 U.S.C. 103(a) rejections on claims 3-14 have been overcome by the amendments to claims 1 and 2. The examiner finds these arguments to be unable to overcome the rejections based upon the explanation, which can be found in #2 above. The 35 U.S.C. 103(a) rejections on claims 3-14 will stand as stated below.
- 4. The Applicant argues that the 35 U.S.C. 103(a) rejections on claims 5-7 and 10-12 have failed to provide a prima facie case of obviousness. The examiner has considered the

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Applicant's arguments, but finds the arguments nonpersuasive. The reference, U.S. Patent No. 6,075,257 Song, also teaches that the oxide layer has a low contact resistance while preventing silicidation from occurring, (Col. 3 Lines 15-17). The rejection stands as stated below.

5. The Applicant argues that the 35 U.S.C. 103(a) rejections on claims 8-9, 13, and 14 have failed to provide a prima facie case of obviousness, based upon the argument on claim 5. The examiner finds these arguments to be unable to overcome the rejections based upon the explanation, which can be found in #4 above. The 35 U.S.C. 103(a) rejections on claims 8-9, 13, and 14 will stand as stated below.

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Applicant's Admitted Prior Art.

6. Referring to claim 1, a semiconductor device comprising, (Applicant's Admitted Prior Art Figures 19-20): a substrate, (1); a protruding portion, (2), which is formed on the top face of the substrate, (1), and the top of which serves as a dummy element, (2), for controlling a chemical mechanical polishing process, (Applicant's Admitted Prior Art Figure 20 #2 & Page 2 Lines 20-35), and a conductive layer, (7), which is formed on the substrate, (1), so as to have a spiral shape and which serves as an induction element, (Applicant's Admitted Prior Art Page 1 Lines 35-37), wherein said protruding portion, (2), is formed in a region other than a region directly below said conductive layer, (7).

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7. Referring to claim 2, a semiconductor device, (Applicant's Admitted Prior Art Figures 19-20), wherein the substrate, (1), is an SOI substrate, and said protruding portion, (2), is formed of an SOI layer of said SOI substrate, (Applicant's Admitted Prior Art Page 2 Lines 16-21 & the layer directly on the substrate is an insulator, (3), and the layer directly on the protruding portions is an insulator, (4).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art in view of U.S. Patent No. 5,918,121 Wen et al.

8. Referring to claim 3, a semiconductor device, wherein the substrate, (Applicant's Admitted Prior Art Figures 19-20), includes an N-type semiconductor layer.

Applicant's Admitted Prior Art discloses all of the claimed matter in claim 4 except for the substrate having a P type dopant, but Werner teaches an silicon based inductor structure, (Wen et al. Figure 6 #16), on a substrate, (Wen et al. Figure 6 #10), in which the substrate, (Wen et al. Figure 6 #10), is doped with a P type dopant, (Wen et al. Col. 5 Lines 15-17). Wen et al. does

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not disclose the specific usage of a N type substrate, but Wen et al. does disclose that the P type is a preferred type but not limited to.

Wen et al. discloses the claimed invention except for the substrate being of an N type dopant. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use an N type substrate as an alternative to a P type substrate as claimed in Wen et al.'s invention, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416

It also would be obvious to one skilled in the art to combine the teachings of the Applicant's Admitted Prior Art with the teachings of Wen et al. because the doped substrate increases the quality factor Q, which is advantageous to silicon wire based applications.

9. Referring to claim 4, a semiconductor device, (Applicant's Admitted Prior Art Figures 19-20), wherein the substrate includes a P-type semiconductor layer.

Applicant's Admitted Prior Art discloses all of the claimed matter in claim 4 except for the substrate having a P type dopant, but Werner teaches an silicon based inductor structure, (Wen et al. Figure 6 #16), on a substrate, (Wen et al. Figure 6 #10), in which the substrate, (Wen et al. Figure 6 #10), is doped with a P type dopant, (Wen et al. Col. 5 Lines 15-17). It would be obvious to one skilled in the art to combine the teachings of the Applicant's Admitted Prior Art with the teachings of Wen et al. because the doped substrate increases the quality factor Q, which is advantageous to silicon wire based applications.

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Claim Rejections - 35 USC § 103

Claims 5-7 and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art in view of U.S. Patent No. 6,075,257 Song.

Referring to claim 5, a semiconductor device comprising, (Applicant's Admitted Prior 10. Art Figures 19-20): a substrate, (1); a protruding portion, (2), which is formed on the top face of the substrate, (1), and the top of which serves as a dummy element, (2), for controlling a chemical mechanical polishing process, (Applicant's Admitted Prior Art Figure 20 #2 & Page 2 Lines 20-35); a conductive layer, (7), which is formed on the substrate, (1), so as to have a spiral shape and which serves as an induction element, (Applicant's Admitted Prior Art Page 1 Lines 35-37); and a protective film, (4), which is formed between the substrate, (1), and said conductive layer, (7), and prevents silicidation, of said protruding portion, (2). The Applicant's Admitted Prior Art teaches all of the claimed matter in claim 5, but does not teach a layer that would prevent silicidation of the protruding portions of the silicon substrate. Song does teach a layer above a silicon substrate that prevents the silicidation of a silicon substrate, (Col. 3 Lines 9-10). It would be obvious to one skilled in the art to combine the teachings of the Applicant's Admitted Prior Art and combine them with the teachings of Song's oxide layer on top of the silicon substrate, which prevents silicidation because preventing the silicon substrate from forming into a silicide would allow the silicon substrate to maintain it properties and allow the inductor circuit to have a high quality factor Q and not decrease it through the silicidation process.

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- 11. Referring to claim 6, a semiconductor device, (Applicant's Admitted Prior Art Figures 19-20), wherein the substrate, (1), is an SOI substrate, and said protruding portion, (2), is formed of an SOI layer of said SOI substrate, (Applicant's Admitted Prior Art Page 2 Lines 16-21 & the layer directly on the substrate is an insulator, (3), and the layer directly on the protruding portions is an insulator, (4).
- 12. Referring to claim 7, a semiconductor device, (Applicant's Admitted Prior Art Figures 19-20), which further comprises an extracting wiring, (5), which is connected to said conductive layer, (7 via 8).
- 13. Referring to claim 10, a semiconductor device, (Applicant's Admitted Prior Art Figures 19-20), wherein said protruding portion, (2), is formed in a region other than a region directly below said conductive layer, (7).
- 14. Referring to claim 11, a semiconductor device, (Applicant's Admitted Prior Art Figures 19-20), wherein the substrate, (1), is an SOI substrate, and said protruding portion, (2), is formed of an SOI layer of said SOI substrate, (Applicant's Admitted Prior Art Page 2 Lines 16-21 & the layer directly on the substrate is an insulator, (3), and the layer directly on the protruding portions is an insulator, (4).
- 15. Referring to claim 12, a semiconductor device, (Applicant's Admitted Prior Art Figures 19-20), which further comprises an extracting wiring, (5), which is connected to said conductive layer, (7 via 8).

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Claim Rejections - 35 USC § 103

Claims 8-9 and 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Admitted Prior Art in view of U.S. Patent No. 6,075,257 Song in further view of U.S. Patent No. 5,918,121 Wen et al.

16. Referring to claims 8 and 13, a semiconductor device, wherein the substrate, (Applicant's Admitted Prior Art Figures 19-20), includes an N-type semiconductor layer.

Applicant's Admitted Prior Art discloses all of the claimed matter in claim 4 except for the substrate having a P type dopant, but Werner teaches an silicon based inductor structure, (Wen et al. Figure 6 #16), on a substrate, (Wen et al. Figure 6 #10), in which the substrate, (Wen et al. Figure 6 #10), is doped with a P type dopant, (Wen et al. Col. 5 Lines 15-17). Wen et al. does not disclose the specific usage of a N type substrate, but Wen et al. does disclose that the P type is a preferred type but not limited to.

Wen et al. discloses the claimed invention except for the substrate being of an N type dopant. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use an N type substrate as an alternative to a P type substrate as claimed in Wen et al.'s invention, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416

It also would be obvious to one skilled in the art to combine the teachings of the Applicant's Admitted Prior Art with the teachings of Wen et al. because the doped substrate increases the quality factor Q, which is advantageous to silicon wire based applications.

is advantageous to silicon wire based applications.

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17. Referring to claims 9 and 14, a semiconductor device, (Applicant's Admitted Prior Art Figures 19-20), wherein the substrate includes a P-type semiconductor layer.

Applicant's Admitted Prior Art discloses all of the claimed matter in claim 4 except for the substrate having a P type dopant, but Werner teaches an silicon based inductor structure, (Wen et al. Figure 6 #16), on a substrate, (Wen et al. Figure 6 #10), in which the substrate, (Wen et al. Figure 6 #10), is doped with a P type dopant, (Wen et al. Col. 5 Lines 15-17). It would be obvious to one skilled in the art to combine the teachings of the Applicant's Admitted Prior Art

Conclusion

with the teachings of Wen et al. because the doped substrate increases the quality factor Q, which

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor A Mandala Jr. whose telephone number is (703) 308-6560. The examiner can normally be reached on Monday through Thursday from 8am till 6pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (703) 308-6601. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

VAMJ January 27, 20033

SUPERVISORY PATENT EXAMINER
LECHNOLOGY CENTER 2800